Halloween pumpkin lamp

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Summary

A classic carved Halloween pumpkin with an angry face, made for 3D printing.

Seasonal designs > Autumn & Halloween

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Spooky Jack-o'-Lantern with Lid – LED Pumpkin Lamp

A classic carved Halloween pumpkin with an angry face, made for 3D printing. It has two parts: a hollow body and a lid with a twisted stem. Put an LED tealight inside, close the lid and the light shines through the eyes, nose and jagged grin.

Both parts print **without supports**.

Features

- **Two parts:** the body and the lid. A standard LED tealight (Ø 38 mm) goes in through the top opening.
- **Self-centering lid:** the joint is a 45° cone, so the lid drops into place and sits straight. The clearance is about 0.4 mm.
- **No supports needed:**
  - The inside of the body has no overhang steeper than 45°.

    - All face openings have arched or short bridged top edges, and no tooth hangs in mid-air.
    - The lid prints standing on its flat bottom.
- **Thin 1.6 mm walls,** which is exactly 4 lines with a 0.4 mm nozzle. This saves filament and lets more light through.
- **Flat, stable base** about 68 mm across.

Dimensions

Part	**Size**
Body	103 × 104 × 73 mm
Lid with stem	71 × 71 × 41 mm
Assembled	approx. 103 × 104 × 105 mm
Top opening	approx. Ø 70 mm

Print settings

- **Material:** PLA. Orange glows nicely, and translucent orange looks even better.
- **Layer height:** 0.2 mm. Use 0.12–0.16 mm for smoother curves.
- **Orientation:** print both parts as they come in the files, the body upright and the lid on its flat bottom.
- **Supports:** none.

Body

- 2 walls (perimeters), which fill the 1.6 mm wall completely.
- 3–4 bottom layers.

Lid

- 2 walls.
- 8–10 % infill, preferably **Lightning**. It supports only the domed top surface, which is all the lid needs.
- 4 top layers and 3 bottom layers.

Filament: about 65 g in total. The exact amount depends on your slicer settings.

Assembly

1. Place an LED tealight (Ø 38 mm, battery powered) on the floor inside the body.
2. Put the lid on. It centers itself.

Use LED lights only. Do not use a real candle in a plastic lantern.

Files

- pumpkin_lamp_body.stl: the body
- pumpkin_lamp_lid.stl: the lid

The model was designed in Blender as a parametric Python script. Wall thickness, lid clearance and the size of the base can all be changed in the script.

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Model files

pumpkin_lamp_lid.stl

pumpkin_lamp_body.stl

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